

Abstract

Valve arrangement for the pilot control of a first and a second hydraulically actuatable directional valve

The invention relates to a valve arrangement for the pilot control of a first and second hydraulically actuatable directional valve, each of which is proportionally adjustable out of a neutral position by subjecting a first control chamber to the action of a control pressure in a first direction and by subjecting a second control chamber to the action of a control pressure in a second direction. The valve arrangement possesses a proportionally adjustable pilot control pressure valve with a control output at which a control pressure of different values can be set. It also possesses a switching valve arrangement via which, in a first switching position, the first control chamber of the first directional valve can be connected to the control output of the pilot control pressure valve and the first control chamber of the second directional valve can be relieved of pressure and, in a second switching position, the first control chamber of the second directional valve can be connected to the control output of the pilot control pressure valve and the first control chamber of the first directional valve can be relieved of pressure. The controlling of the directional valves is to be possible with little effort and cost-effectively. This is achieved, according to the

invention, in that a second switching valve arrangement is present, via which, in a first switching position, the second control chambers of the two directional valves are jointly connected to the control output of the pilot control pressure valve and via which, in a second switching position, the second control chambers of the two directional valves are jointly relieved of pressure. In order to adjust a directional valve in the second direction, the second switching valve arrangement is brought into the first switching position and the first control chamber of the directional valve to be adjusted is relieved of pressure, while the first control chamber of the directional valve not to be adjusted is subjected to the action of control pressure.